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<b>TRANSMITTAL FORM</b> <i>(to be used for all correspondence after initial filing)</i>	<b>Application Number</b>	10/035,684	
	<b>Filing Date</b>	November 1, 2001	
	<b>First Named Inventor</b>	Eric Karplus	
	<b>Group Art Unit</b>	2826	
	<b>Examiner Name</b>	Pershelle Greene	
<b>Total Number of Pages in This Submission</b>	38	<b>Attorney Docket Number</b>	

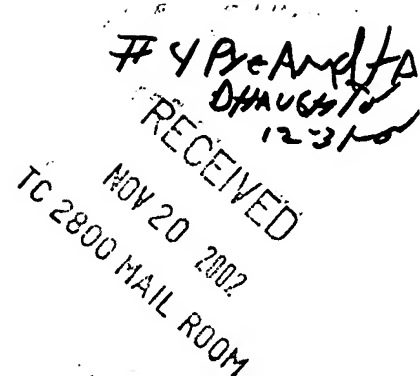
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<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	Preliminary Amendment Summary (2 pages) Marked up pages from Original Application Specification (6 pages) Amended Drawings (7 pages) Amended Application Specification (22 pages)	

<b>SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT</b>	
Firm or Individual name	Eric Karplus
Signature	
Date	November 15, 2002

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## In the United States Patent and Trademark Office

Serial Number: 10/035,684  
Appn. Filed: November 1, 2001  
Applicant(s): Eric Karplus, Richard Farrell, Kanai Shah  
Appn. Title: Position Sensitive Solid State Detector with Internal Gain  
Examiner/GAU: Pershelle Greene / ART Unit 2826

Friday, November 15, 2002  
East Falmouth, MA

### Preliminary Amendment Summary

The following is a summary of the changes addressed by this preliminary amendment. A marked up copy of Pages 1, 8, 9, 10, 12, and 13 of the Original Application Specification is provided (6 pages total), with additions underlined and deletions indicated by a strikethrough. Final drafts of the amended Specification (22 pages) and Drawings (7 pages) are provided. No new matter has been added to the application.

- 1) The first line of each paragraph in the Original Application Specification has been indented by one half of an inch.
- 2) Paragraph numbers were added at the beginning of each paragraph in the Original Application Specification.
- 3) The Specification and Drawings have been reformatted to have 1" margins on all sides.
- 4) The Original Application receipt postcard that was received back from the Patent Office indicated that there were 24 figures on 7 pages. The inventors subsequently became aware that there was an extra page in the 'Drawings' section with the heading '**Page 8 of 7**' which contained the caption 'Figure 11' which should have appeared at the bottom of '**Page 7 of 7**'. The caption has been moved to the bottom of '**Page 7 of 7**' where it belongs, and '**Page 8 of 7**' has been removed.
- 5) On **Page 1** of the Original Application Specification (Paragraph 1 on Page 1 of the Amended Application Specification), in the paragraph under the section entitled 'Statement Regarding Federally Sponsored Research and Development', the word 'the' has been inserted in front of 'National Science Foundation'.
- 6) In the 'Drawing Figures' section on **Page 8** of the Original Application Specification (Page 9 of the Amended Application Specification), there are two occurrences of the caption 'Figure 2B'. The second occurrence has been changed to 'Figure 2C'.
- 7) In the 'Drawing Figures' section on **Page 9** of the Original Application Specification (Page 10 of the Amended Application Specification), the caption 'Figure 8 shows' has been changed to 'Figures 8A and 8B show'. The ambiguous modifier 'Csl(TI) and LSO' has been deleted, as it is clearly explained on Page 15 of the Original Application Specification in the last paragraph before the 'Conclusion, Ramifications, and Scope' section.

Serial Number: 10/035,684  
Inventors: Karplus, Farrell, Shah

Preliminary Amendment Summary

- 8) In the 'Drawing Figures' section on **Page 9** of the Original Application Specification (Page 10 of the Amended Application Specification), the caption 'Figure 10 shows' has been changed to 'Figures 10A and 10B show'.
- 9) An introductory sentence has been inserted at the beginning of the first paragraph on **Page 10** of the Original Application Specification (Paragraph 23 on Page 10 of the Amended Application Specification). This sentence is nearly identical to the caption for Figure 1 included in the 'Drawing Figures' section of the Original Application Specification.
- 10) In the first paragraph on **Page 10** of the Original Application Specification (Paragraph 23 on Page 11 of the Amended Application Specification), the figure references '(Figure 2A)', '(Figure 2B)', and '(Figure 2C)' have been added for clarity.
- 11) On the last line of **Page 10** of the Original Application Specification (Paragraph 24 on Page 11 of the Amended Application Specification), the part number **20** has been inserted into the text after the phrase 'charge spreading'.
- 12) In the first full paragraph on **Page 12** of the Original Application Specification (Paragraph 28 on Page 13 of the Amended Application Specification), the reference to part number '48d' has been removed.
- 13) In the first full paragraph on **Page 13** of the Original Application Specification (Paragraph 30 on Page 14 of the Amended Application Specification), the references to part numbers '48d' and '52d' have been removed and the reference to part number '52e' has been moved to the beginning of the list that formerly read '52a, 52b, ' etc.